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TITLE: MANUFACTURE OF CARBONACEOUS MEMBER FOR FUEL CELL

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## INVENTOR-INFORMATION:

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US-CL-CURRENT: 524/495

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## ABSTRACT:

PURPOSE: To obtain a carbonaceous material suitable as a conductive separating plate for a phosphoric-acid-type fuel cell by using as a binder a mixture resin consisting of a vinyl phenol polymer and a phenol resin initial condensation product which has an epoxy group.

CONSTITUTION: After 40pts.wt. a paravinylphenol polymer and a novolak-type phenol resin initial condensation product are mixed, the mixture is dissolved in acetone. The thus prepared mixture resin solution used as a binder is combined with artificial graphite powder of below 150 mesh, then the mixture is kneaded in a pressure-type kneader at a load pressure of 0.5kg/cm<sup>2</sup> for 2hr while maintaining the heating temperature at 90°C. Next, the kneaded mixture is air-dried to vaporize the solvent and the dried mixture is crushed and sieved to obtain formation powder of below 80 mesh. After that, the formation powder is packed into a mold of 500mm in length before being formed into a plate by thermal pressure molding by use of a hydraulic press. Next, the thus obtained molded body, after being sliced into 8.0mm thicknesses, is subjected to preliminary heating at 180°C for 24hr in a heating device, thereafter being heated to 250°C completing hardening.

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